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1 [Fix: Treating bugs as allergies—a safe method to survive software failures](#)

[Ping Qin, Joseph Tusk, Yunyan Zhou, Jagadeesan Sundaresan](#)

August 2007 **Transactions on Computer Systems (TOCS)**, Volume 25 Issue 3

Publisher: ACM

Full text available: [PDF](#) (454.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Many applications demand availability. Unfortunately, software failures greatly reduce system availability. Prior work on surviving software failures suffers from one or more of the following limitations: required application restructuring, inability ...

Keywords: Availability, Bug, Reliability, Software Failure

2 [Melange: creating a “functional” Internet](#)

[Anil Madhavapeddy, Alex Ito, Tim Deegan, David Scott, Rishabh Iyer, Suman Saha](#)

June 2007 **EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems** 2007

Publisher: ACM

Full text available: [PDF](#) (760.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Most implementations of critical Internet protocols are written in type-unsafe languages such as C or C++ and are regularly vulnerable to serious security and reliability problems. Type-safe languages eliminate many errors but are not used to due to ...

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

3 [Pointer analysis for structured parallel programs](#)

[Rade Ruginić, Martin C. Rinard](#)

January 2003 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 1

Publisher: ACM

Full text available: [PDF](#) (383.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 73, Downloads (Overall): 736, Citation Count: 3

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel ...

Keywords: Pointer analysis